

ANALYTICAL REPORT

Job Number: 360-31150-1

Job Description: Olin Chemical Quarterly Groundwater

For:

Olin Corporation
3855 North Ocoee Street
Suite 200
Cleveland, TN 37312-4441

CHECKED FOR COMPLETENESS
OF PARAMETERS ORDERED BY:
Mr. Morrow

Attention: Mr. Steven Morrow

Joseph A. Chimi

Approved for release.
Joe Chimi
Report Production Representative
12/2/10 12:05 PM

Designee for
Becky C Mason
Project Manager II
becky.mason@testamericainc.com
12/02/2010

Results relate only to the items tested and the sample(s) as received by the laboratory. The test results in this report meet all NELAC requirements for accredited parameters, exceptions are noted in this report. Pursuant to NELAC, this report may not be reproduced except in full, and with written approval from the laboratory. TestAmerica Westfield Certifications and Approvals: MADEP MA014, RIDOH57, CTDPH 0494, VT DECWSD, NH DES 2539, NELAP FL E87912 TOX, NELAP NJ MA008 TOX, NELAP NY 10843, NY ELAP 10843, North Carolina 647, NELAP PA 68-04386. Field sampling is performed under SOPs WE-FLD-001 and WE-FLD-002.

TestAmerica Laboratories, Inc.

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MassDEP Analytical Protocol Certification Form

Laboratory Name:	TestAmerica Westfield		Project #:	360-31150-1	
Project Location:	RTN:				
This form provides certifications for the following data set: list Laboratory Sample ID Number(s):					
360-31150-(1-10)					
Matrices:	<input checked="" type="checkbox"/> Groundwater/Surface Water <input type="checkbox"/> Soil/Sediment <input type="checkbox"/> Drinking Water <input type="checkbox"/> Air <input type="checkbox"/> other:				
CAM Protocols (check all that apply below):					
8260 VOC CAM II A <input type="checkbox"/>	7470/7471 Hg CAM III B <input type="checkbox"/>	Mass DEP VPH CAM IV A <input type="checkbox"/>	8081 Pesticides CAM V B <input type="checkbox"/>	7196 Hex Cr CAM VI B <input type="checkbox"/>	Mass DEP APH CAM IX A <input type="checkbox"/>
8270 SVOC CAM II B <input type="checkbox"/>	7010 Metals CAM III C <input type="checkbox"/>	Mass DEP EPH CAM IV B <input type="checkbox"/>	8151 Herbicides CAM V C <input type="checkbox"/>	8330 Explosives CAM VIII A <input type="checkbox"/>	TO-15 VOC CAM IX B <input type="checkbox"/>
6010 Metals CAM III A <input checked="" type="checkbox"/>	6020 Metals CAM III D <input type="checkbox"/>	8082 PCB CAM V A <input type="checkbox"/>	9014 Total Cyanide/PAC CAM VI A <input type="checkbox"/>	332.0 Perchlorate CAM VIII B <input type="checkbox"/>	
Affirmative Responses to Questions A through F are required for "Presumptive Certainty" status					
A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding time.				<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?				<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?				<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?				<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
E	a. VPH, EPH and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications). b. APH and TO-15 Methods only: Was the complete analyte list reported for each method?				<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?				<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Responses to Questions G, H and I below are required for "Presumptive Certainty" status					
G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?				<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No ¹
<i>Data User Note: Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WCS-07-350</i>					
H	Were all QC performance standards specified in the CAM protocol(s) achieved?				<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s) ?				<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
¹ All negative responses must be addressed in an attached laboratory narrative.					
<i>I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, is accurate and complete.</i>					
Signature:				Position:	Laboratory Director
Printed Name:	Steven C. Hartmann			Date:	12/2/10 11:59
This form has been electronically signed and approved					

CASE NARRATIVE

Client: Olin Corporation

Project: Olin Chemical Quarterly Groundwater

Report Number: 360-31150-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 11/17/2010; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 0.6 C.

Note: All samples which require thermal preservation are considered acceptable if the arrival temperature is within 2 C of the required temperature or method specified range. For samples with a specified temperature of 4 C, samples with a temperature ranging from just above freezing temperature of water to 6 C shall be acceptable. Samples that are hand delivered immediately following collection may not meet these criteria, however they will be deemed acceptable according to NELAC standards, if there is evidence that the chilling process has begun, such as arrival on ice, etc.

DISSOLVED METALS

Samples OC-GW-202S (360-31150-1), OC-GW-202D (360-31150-2), OC-GW-34D (360-31150-3), OC-GW-78S (360-31150-4), OC-GW-79S (360-31150-5), OC-PZ-16RR (360-31150-6), OC-PZ-17RR (360-31150-7), OC-GW-34D DUP (360-31150-8), OC-GW-202S DUP (360-31150-9) and OC-GW-34SR (360-31150-10) were analyzed for dissolved metals in accordance with EPA SW-846 Method 6010B. The samples were analyzed on 11/19/2010 and 11/22/2010.

At the request of the client, an abbreviated/modified MCP analyte list was reported for this job.

No difficulties were encountered during the dissolved metals analyses.

All quality control parameters were within the acceptance limits.

ANIONS

Samples OC-GW-202S (360-31150-1), OC-GW-202D (360-31150-2), OC-GW-34D (360-31150-3), OC-GW-78S (360-31150-4), OC-GW-79S (360-31150-5), OC-PZ-16RR (360-31150-6), OC-PZ-17RR (360-31150-7), OC-GW-34D DUP (360-31150-8), OC-GW-202S DUP (360-31150-9) and OC-GW-34SR (360-31150-10) were analyzed for anions in accordance with EPA Method 300.0. The samples were analyzed on 11/23/2010 and 11/24/2010.

Sulfate failed the recovery criteria high for the MS and MSD of sample OC-GW-202S (360-31150-1) in batch 360-66331. The associated LCS recovered within control limits. Refer to the QC report for details.

Samples OC-GW-202S (360-31150-1)[10X], OC-GW-202D (360-31150-2)[10X], OC-GW-202D (360-31150-2)[20X], OC-GW-78S (360-31150-4)[10X], OC-GW-79S (360-31150-5)[10X], OC-PZ-16RR (360-31150-6)[10X], OC-PZ-17RR (360-31150-7)[10X] and OC-GW-202S DUP (360-31150-9)[10X] required dilution prior to analysis due to high target concentration. The reporting limits have been adjusted accordingly.

No other difficulties were encountered during the anions analyses.

All other quality control parameters were within the acceptance limits.

AMMONIA

Samples OC-GW-202S (360-31150-1), OC-GW-202D (360-31150-2), OC-GW-34D (360-31150-3), OC-GW-78S (360-31150-4), OC-GW-79S (360-31150-5), OC-PZ-16RR (360-31150-6), OC-PZ-17RR (360-31150-7), OC-GW-34D DUP (360-31150-8), OC-GW-202S DUP (360-31150-9) and OC-GW-34SR (360-31150-10) were analyzed for ammonia in accordance with Lachat 107-06-1B. The samples were prepared on 11/23/2010 and 11/30/2010 and analyzed on 11/24/2010 and 11/30/2010.

Ammonia failed the recovery criteria low for the MS of sample OC-GW-202S (360-31150-1) in batch 360-66313. The associated LCS recovered within control limits. The presence of the '4' qualifier in the report indicates analytes where the concentration in the unspiked sample exceeded four times the spiking amount. Refer to the QC report for details.

Samples OC-GW-202S (360-31150-1)[5X], OC-GW-202D (360-31150-2)[10X], OC-GW-78S (360-31150-4)[10X], OC-GW-79S (360-31150-5)[10X], OC-PZ-16RR (360-31150-6)[10X], OC-PZ-17RR (360-31150-7)[10X] and OC-GW-202S DUP (360-31150-9)[10X] required dilution prior to analysis due to high concentration. The reporting limits have been adjusted accordingly.

No other difficulties were encountered during the ammonia analyses.

All other quality control parameters were within the acceptance limits.

SPECIFIC CONDUCTIVITY

Samples OC-GW-202S (360-31150-1), OC-GW-202D (360-31150-2), OC-GW-34D (360-31150-3), OC-GW-78S (360-31150-4), OC-GW-79S (360-31150-5), OC-PZ-16RR (360-31150-6), OC-PZ-17RR (360-31150-7), OC-GW-34D DUP (360-31150-8), OC-GW-202S DUP (360-31150-9) and OC-GW-34SR (360-31150-10) were analyzed for specific conductivity in accordance with SM20 2510B. The samples were analyzed on 11/18/2010.

No difficulties were encountered during the conductivity analyses.

All quality control parameters were within the acceptance limits.

EXECUTIVE SUMMARY - Detections

Client: Olin Corporation

Job Number: 360-31150-1

Lab Sample ID Analyte	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method
360-31150-1	OC-GW-202S				
Sulfate	340		20	mg/L	300.0
Chloride	61		10	mg/L	300.0
Ammonia	58		0.50	mg/L	L107-06-1B
Specific Conductance	1100		1.0	umhos/cm	SM 2510B
<i>Dissolved</i>					
Chromium	3.9	J	5.0	ug/L	6010B
360-31150-2	OC-GW-202D				
Sulfate	1400		40	mg/L	300.0
Chloride	200		10	mg/L	300.0
Ammonia	190		1.0	mg/L	L107-06-1B
Specific Conductance	2800		1.0	umhos/cm	SM 2510B
<i>Dissolved</i>					
Aluminum	6400		100	ug/L	6010B
Chromium	540		5.0	ug/L	6010B
360-31150-3	OC-GW-34D				
Sulfate	36		2.0	mg/L	300.0
Chloride	4.3		1.0	mg/L	300.0
Ammonia	14		0.10	mg/L	L107-06-1B
Specific Conductance	170		1.0	umhos/cm	SM 2510B
<i>Dissolved</i>					
Chromium	19		10	ug/L	6010B
360-31150-4	OC-GW-78S				
Sulfate	580		20	mg/L	300.0
Chloride	19		1.0	mg/L	300.0
Ammonia	51		1.0	mg/L	L107-06-1B
Specific Conductance	1300		1.0	umhos/cm	SM 2510B
<i>Dissolved</i>					
Chromium	2.1	J	5.0	ug/L	6010B

EXECUTIVE SUMMARY - Detections

Client: Olin Corporation

Job Number: 360-31150-1

Lab Sample ID Analyte	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method
360-31150-5	OC-GW-79S				
Sulfate	870		20	mg/L	300.0
Chloride	120		10	mg/L	300.0
Ammonia	88		1.0	mg/L	L107-06-1B
Specific Conductance	2100		1.0	umhos/cm	SM 2510B
<i>Dissolved</i>					
Chromium	18		5.0	ug/L	6010B
360-31150-6	OC-PZ-16RR				
Sulfate	720		20	mg/L	300.0
Chloride	190		10	mg/L	300.0
Ammonia	150		1.0	mg/L	L107-06-1B
Specific Conductance	2200		1.0	umhos/cm	SM 2510B
<i>Dissolved</i>					
Chromium	3.6	J	5.0	ug/L	6010B
360-31150-7	OC-PZ-17RR				
Sulfate	520		20	mg/L	300.0
Chloride	25		1.0	mg/L	300.0
Ammonia	54		1.0	mg/L	L107-06-1B
Specific Conductance	1300		1.0	umhos/cm	SM 2510B
<i>Dissolved</i>					
Chromium	3.5	J	5.0	ug/L	6010B
360-31150-8	OC-GW-34D DUP				
Sulfate	36		2.0	mg/L	300.0
Chloride	4.2		1.0	mg/L	300.0
Ammonia	14		0.10	mg/L	L107-06-1B
Specific Conductance	170		1.0	umhos/cm	SM 2510B
<i>Dissolved</i>					
Chromium	18		10	ug/L	6010B

EXECUTIVE SUMMARY - Detections

Client: Olin Corporation

Job Number: 360-31150-1

Lab Sample ID Analyte	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method
360-31150-9	OC-GW-202S DUP				
Sulfate	360		20	mg/L	300.0
Chloride	65		10	mg/L	300.0
Ammonia	60		1.0	mg/L	L107-06-1B
Specific Conductance	1100		1.0	umhos/cm	SM 2510B
<i>Dissolved</i>					
Chromium	3.9	J	5.0	ug/L	6010B
360-31150-10	OC-GW-34SR				
Sulfate	9.5		2.0	mg/L	300.0
Chloride	1.7		1.0	mg/L	300.0
Ammonia	0.20		0.10	mg/L	L107-06-1B
Specific Conductance	70		1.0	umhos/cm	SM 2510B
<i>Dissolved</i>					
Chromium	1.3	J	5.0	ug/L	6010B

METHOD SUMMARY

Client: Olin Corporation

Job Number: 360-31150-1

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Dissolved Metals Sample Filtration, Field	TAL WFD	SW846 6010B FIELD_FLTRD	
Chloride & Sulfate	TAL WFD	40CFR136A 300.0	
Nitrogen Ammonia Distillation, Ammonia	TAL WFD TAL WFD	LACHAT L107-06-1B Distill/Ammonia	
Conductivity, Specific Conductance	TAL WFD	SM SM 2510B	

Lab References:

TAL WFD = TestAmerica Westfield

Method References:

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.

LACHAT = LACHAT

SM = "Standard Methods For The Examination Of Water And Wastewater",

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: Olin Corporation

Job Number: 360-31150-1

Method	Analyst	Analyst ID
SW846 6010B	Smith, Tim J	TJS
40CFR136A 300.0	Emerich, Rich W	RWE
LACHAT L107-06-1B	Emerich, Rich W	RWE
SM SM 2510B	Stewart, Alyse M	AMS

SAMPLE SUMMARY

Client: Olin Corporation

Job Number: 360-31150-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
360-31150-1	OC-GW-202S	Water	11/17/2010 1205	11/17/2010 1750
360-31150-1MS	OC-GW-202S	Water	11/17/2010 1205	11/17/2010 1750
360-31150-1MSD	OC-GW-202S	Water	11/17/2010 1205	11/17/2010 1750
360-31150-2	OC-GW-202D	Water	11/17/2010 1335	11/17/2010 1750
360-31150-3	OC-GW-34D	Water	11/17/2010 1020	11/17/2010 1750
360-31150-3MS	OC-GW-34D	Water	11/17/2010 1020	11/17/2010 1750
360-31150-3MSD	OC-GW-34D	Water	11/17/2010 1020	11/17/2010 1750
360-31150-4	OC-GW-78S	Water	11/17/2010 1110	11/17/2010 1750
360-31150-5	OC-GW-79S	Water	11/17/2010 1215	11/17/2010 1750
360-31150-6	OC-PZ-16RR	Water	11/17/2010 1300	11/17/2010 1750
360-31150-7	OC-PZ-17RR	Water	11/17/2010 1330	11/17/2010 1750
360-31150-8	OC-GW-34D DUP	Water	11/17/2010 1020	11/17/2010 1750
360-31150-9	OC-GW-202S DUP	Water	11/17/2010 1205	11/17/2010 1750
360-31150-10	OC-GW-34SR	Water	11/17/2010 0925	11/17/2010 1750

SAMPLE RESULTS

Analytical Data

Client: Olin Corporation

Job Number: 360-31150-1

Client Sample ID: OC-GW-202SLab Sample ID: 360-31150-1
Client Matrix: WaterDate Sampled: 11/17/2010 1205
Date Received: 11/17/2010 1750**6010B Dissolved Metals-Dissolved**

Method:	6010B	Analysis Batch:	360-66154	Instrument ID:	Varian ICP
Preparation:	N/A			Lab File ID:	111910e.csv
Dilution:	1.0			Initial Weight/Volume:	1.0 mL
Date Analyzed:	11/19/2010 1603			Final Weight/Volume:	1.0 mL
Date Prepared:					

Analyte	Result (ug/L)	Qualifier	MDL	RL
Aluminum	ND		12	100
Chromium	3.9	J	0.65	5.0

Analytical Data

Client: Olin Corporation

Job Number: 360-31150-1

Client Sample ID: OC-GW-202DLab Sample ID: 360-31150-2
Client Matrix: WaterDate Sampled: 11/17/2010 1335
Date Received: 11/17/2010 1750**6010B Dissolved Metals-Dissolved**

Method:	6010B	Analysis Batch:	360-66154	Instrument ID:	Varian ICP
Preparation:	N/A			Lab File ID:	111910e.csv
Dilution:	1.0			Initial Weight/Volume:	1.0 mL
Date Analyzed:	11/19/2010 1621			Final Weight/Volume:	1.0 mL
Date Prepared:					

Analyte	Result (ug/L)	Qualifier	MDL	RL
Aluminum	6400		12	100
Chromium	540		0.65	5.0

Analytical Data

Client: Olin Corporation

Job Number: 360-31150-1

Client Sample ID: OC-GW-34DLab Sample ID: 360-31150-3
Client Matrix: WaterDate Sampled: 11/17/2010 1020
Date Received: 11/17/2010 1750**6010B Dissolved Metals-Dissolved**

Method:	6010B	Analysis Batch:	360-66154	Instrument ID:	Varian ICP
Preparation:	N/A			Lab File ID:	111910e.csv
Dilution:	2.0			Initial Weight/Volume:	1.0 mL
Date Analyzed:	11/19/2010 1838			Final Weight/Volume:	1.0 mL
Date Prepared:					

Analyte	Result (ug/L)	Qualifier	MDL	RL
Aluminum	ND		25	200
Chromium	19		1.3	10

Analytical Data

Client: Olin Corporation

Job Number: 360-31150-1

Client Sample ID: OC-GW-78SLab Sample ID: 360-31150-4
Client Matrix: WaterDate Sampled: 11/17/2010 1110
Date Received: 11/17/2010 1750**6010B Dissolved Metals-Dissolved**

Method:	6010B	Analysis Batch:	360-66154	Instrument ID:	Varian ICP
Preparation:	N/A			Lab File ID:	111910e.csv
Dilution:	1.0			Initial Weight/Volume:	1.0 mL
Date Analyzed:	11/19/2010 1642			Final Weight/Volume:	1.0 mL
Date Prepared:					

Analyte	Result (ug/L)	Qualifier	MDL	RL
Aluminum	ND		12	100
Chromium	2.1	J	0.65	5.0

Analytical Data

Client: Olin Corporation

Job Number: 360-31150-1

Client Sample ID: OC-GW-79SLab Sample ID: 360-31150-5
Client Matrix: WaterDate Sampled: 11/17/2010 1215
Date Received: 11/17/2010 1750**6010B Dissolved Metals-Dissolved**

Method:	6010B	Analysis Batch:	360-66154	Instrument ID:	Varian ICP
Preparation:	N/A			Lab File ID:	111910e.csv
Dilution:	1.0			Initial Weight/Volume:	1.0 mL
Date Analyzed:	11/19/2010 1645			Final Weight/Volume:	1.0 mL
Date Prepared:					

Analyte	Result (ug/L)	Qualifier	MDL	RL
Aluminum	ND		12	100
Chromium	18		0.65	5.0

Analytical Data

Client: Olin Corporation

Job Number: 360-31150-1

Client Sample ID: OC-PZ-16RRLab Sample ID: 360-31150-6
Client Matrix: WaterDate Sampled: 11/17/2010 1300
Date Received: 11/17/2010 1750**6010B Dissolved Metals-Dissolved**

Method:	6010B	Analysis Batch:	360-66154	Instrument ID:	Varian ICP
Preparation:	N/A			Lab File ID:	111910e.csv
Dilution:	1.0			Initial Weight/Volume:	1.0 mL
Date Analyzed:	11/19/2010 1653			Final Weight/Volume:	1.0 mL
Date Prepared:					

Analyte	Result (ug/L)	Qualifier	MDL	RL
Aluminum	ND		12	100
Chromium	3.6	J	0.65	5.0

Analytical Data

Client: Olin Corporation

Job Number: 360-31150-1

Client Sample ID: OC-PZ-17RR

Lab Sample ID: 360-31150-7
Client Matrix: WaterDate Sampled: 11/17/2010 1330
Date Received: 11/17/2010 1750**6010B Dissolved Metals-Dissolved**

Method:	6010B	Analysis Batch:	360-66154	Instrument ID:	Varian ICP
Preparation:	N/A			Lab File ID:	111910e.csv
Dilution:	1.0			Initial Weight/Volume:	1.0 mL
Date Analyzed:	11/19/2010 1656			Final Weight/Volume:	1.0 mL
Date Prepared:					

Analyte	Result (ug/L)	Qualifier	MDL	RL
Aluminum	ND		12	100
Chromium	3.5	J	0.65	5.0

Analytical Data

Client: Olin Corporation

Job Number: 360-31150-1

Client Sample ID: OC-GW-34D DUPLab Sample ID: 360-31150-8
Client Matrix: WaterDate Sampled: 11/17/2010 1020
Date Received: 11/17/2010 1750**6010B Dissolved Metals-Dissolved**

Method:	6010B	Analysis Batch:	360-66198	Instrument ID:	Varian ICP
Preparation:	N/A			Lab File ID:	112210a.csv
Dilution:	2.0			Initial Weight/Volume:	1.0 mL
Date Analyzed:	11/22/2010 1218			Final Weight/Volume:	1.0 mL
Date Prepared:					

Analyte	Result (ug/L)	Qualifier	MDL	RL
Aluminum	ND		25	200
Chromium	18		1.3	10

Analytical Data

Client: Olin Corporation

Job Number: 360-31150-1

Client Sample ID: OC-GW-202S DUPLab Sample ID: 360-31150-9
Client Matrix: WaterDate Sampled: 11/17/2010 1205
Date Received: 11/17/2010 1750**6010B Dissolved Metals-Dissolved**

Method:	6010B	Analysis Batch:	360-66154	Instrument ID:	Varian ICP
Preparation:	N/A			Lab File ID:	111910e.csv
Dilution:	1.0			Initial Weight/Volume:	1.0 mL
Date Analyzed:	11/19/2010 1702			Final Weight/Volume:	1.0 mL
Date Prepared:					

Analyte	Result (ug/L)	Qualifier	MDL	RL
Aluminum	ND		12	100
Chromium	3.9	J	0.65	5.0

Analytical Data

Client: Olin Corporation

Job Number: 360-31150-1

Client Sample ID: OC-GW-34SRLab Sample ID: 360-31150-10
Client Matrix: WaterDate Sampled: 11/17/2010 0925
Date Received: 11/17/2010 1750**6010B Dissolved Metals-Dissolved**

Method:	6010B	Analysis Batch:	360-66154	Instrument ID:	Varian ICP
Preparation:	N/A			Lab File ID:	111910e.csv
Dilution:	1.0			Initial Weight/Volume:	1.0 mL
Date Analyzed:	11/19/2010 1705			Final Weight/Volume:	1.0 mL
Date Prepared:					

Analyte	Result (ug/L)	Qualifier	MDL	RL
Aluminum	ND		12	100
Chromium	1.3	J	0.65	5.0

Analytical Data

Client: Olin Corporation

Job Number: 360-31150-1

General Chemistry**Client Sample ID:** OC-GW-202S

Lab Sample ID: 360-31150-1

Date Sampled: 11/17/2010 1205

Client Matrix: Water

Date Received: 11/17/2010 1750

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Sulfate	340		mg/L	20	20	10	300.0
	Analysis Batch: 360-66331		Date Analyzed:	11/23/2010 0306			
Chloride	61		mg/L	10	10	10	300.0
	Analysis Batch: 360-66331		Date Analyzed:	11/23/2010 0306			
Ammonia	58		mg/L	0.50	0.50	5.0	L107-06-1B
	Analysis Batch: 360-66313		Date Analyzed:	11/24/2010 1141			
	Prep Batch: 360-66251		Date Prepared:	11/23/2010 1414			
Specific Conductance	1100		umhos/cm	1.0	1.0	1.0	SM 2510B
	Analysis Batch: 360-66028		Date Analyzed:	11/18/2010 1137			

Analytical Data

Client: Olin Corporation

Job Number: 360-31150-1

General Chemistry

Client Sample ID:	OC-GW-202D						
Lab Sample ID:	360-31150-2					Date Sampled: 11/17/2010 1335	
Client Matrix:	Water					Date Received: 11/17/2010 1750	
Analyte	Result	Qual	Units	RL	RL	Dil	Method
Sulfate	1400		mg/L	40	40	20	300.0
	Analysis Batch: 360-66377		Date Analyzed: 11/24/2010 2142				
Chloride	200		mg/L	10	10	10	300.0
	Analysis Batch: 360-66331		Date Analyzed: 11/23/2010 0406				
Ammonia	190		mg/L	1.0	1.0	10	L107-06-1B
	Analysis Batch: 360-66313		Date Analyzed: 11/24/2010 1152				
	Prep Batch: 360-66251		Date Prepared: 11/23/2010 1414				
Specific Conductance	2800		umhos/cm	1.0	1.0	1.0	SM 2510B
	Analysis Batch: 360-66028		Date Analyzed: 11/18/2010 1143				

Analytical Data

Client: Olin Corporation

Job Number: 360-31150-1

General Chemistry**Client Sample ID:** OC-GW-34D

Lab Sample ID: 360-31150-3

Date Sampled: 11/17/2010 1020

Client Matrix: Water

Date Received: 11/17/2010 1750

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Sulfate	36		mg/L	2.0	2.0	1.0	300.0
	Analysis Batch: 360-66332		Date Analyzed:	11/23/2010 0622			
Chloride	4.3		mg/L	1.0	1.0	1.0	300.0
	Analysis Batch: 360-66332		Date Analyzed:	11/23/2010 0622			
Ammonia	14		mg/L	0.10	0.10	1.0	L107-06-1B
	Analysis Batch: 360-66490		Date Analyzed:	11/30/2010 1622			
	Prep Batch: 360-66418		Date Prepared:	11/30/2010 0912			
Specific Conductance	170		umhos/cm	1.0	1.0	1.0	SM 2510B
	Analysis Batch: 360-66028		Date Analyzed:	11/18/2010 1145			

Analytical Data

Client: Olin Corporation

Job Number: 360-31150-1

General Chemistry**Client Sample ID:** OC-GW-78S

Lab Sample ID: 360-31150-4

Date Sampled: 11/17/2010 1110

Client Matrix: Water

Date Received: 11/17/2010 1750

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Sulfate	580		mg/L	20	20	10	300.0
	Analysis Batch: 360-66331		Date Analyzed:	11/23/2010 0436			
Chloride	19		mg/L	1.0	1.0	1.0	300.0
	Analysis Batch: 360-66331		Date Analyzed:	11/23/2010 0421			
Ammonia	51		mg/L	1.0	1.0	10	L107-06-1B
	Analysis Batch: 360-66313		Date Analyzed:	11/24/2010 1153			
	Prep Batch: 360-66251		Date Prepared:	11/23/2010 1414			
Specific Conductance	1300		umhos/cm	1.0	1.0	1.0	SM 2510B
	Analysis Batch: 360-66028		Date Analyzed:	11/18/2010 1148			

Analytical Data

Client: Olin Corporation

Job Number: 360-31150-1

General Chemistry**Client Sample ID:** OC-GW-79S

Lab Sample ID: 360-31150-5

Date Sampled: 11/17/2010 1215

Client Matrix: Water

Date Received: 11/17/2010 1750

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Sulfate	870		mg/L	20	20	10	300.0
	Analysis Batch: 360-66332		Date Analyzed:	11/23/2010 0607			
Chloride	120		mg/L	10	10	10	300.0
	Analysis Batch: 360-66332		Date Analyzed:	11/23/2010 0607			
Ammonia	88		mg/L	1.0	1.0	10	L107-06-1B
	Analysis Batch: 360-66313		Date Analyzed:	11/24/2010 1154			
	Prep Batch: 360-66251		Date Prepared:	11/23/2010 1414			
Specific Conductance	2100		umhos/cm	1.0	1.0	1.0	SM 2510B
	Analysis Batch: 360-66028		Date Analyzed:	11/18/2010 1149			

Analytical Data

Client: Olin Corporation

Job Number: 360-31150-1

General Chemistry

Client Sample ID:	OC-PZ-16RR						
Lab Sample ID:	360-31150-6						
Client Matrix:	Water						
Analyte	Result	Qual	Units	RL	RL	Dil	Method
Sulfate	720		mg/L	20	20	10	300.0
	Analysis Batch: 360-66332		Date Analyzed:	11/23/2010 0738			
Chloride	190		mg/L	10	10	10	300.0
	Analysis Batch: 360-66332		Date Analyzed:	11/23/2010 0738			
Ammonia	150		mg/L	1.0	1.0	10	L107-06-1B
	Analysis Batch: 360-66313		Date Analyzed:	11/24/2010 1155			
	Prep Batch: 360-66251		Date Prepared:	11/23/2010 1414			
Specific Conductance	2200		umhos/cm	1.0	1.0	1.0	SM 2510B
	Analysis Batch: 360-66028		Date Analyzed:	11/18/2010 1150			

Analytical Data

Client: Olin Corporation

Job Number: 360-31150-1

General Chemistry**Client Sample ID:** OC-PZ-17RR

Lab Sample ID: 360-31150-7

Date Sampled: 11/17/2010 1330

Client Matrix: Water

Date Received: 11/17/2010 1750

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Sulfate	520		mg/L	20	20	10	300.0
	Analysis Batch: 360-66333		Date Analyzed:	11/23/2010 1958			
Chloride	25		mg/L	1.0	1.0	1.0	300.0
	Analysis Batch: 360-66333		Date Analyzed:	11/23/2010 1943			
Ammonia	54		mg/L	1.0	1.0	10	L107-06-1B
	Analysis Batch: 360-66313		Date Analyzed:	11/24/2010 1156			
	Prep Batch: 360-66251		Date Prepared:	11/23/2010 1414			
Specific Conductance	1300		umhos/cm	1.0	1.0	1.0	SM 2510B
	Analysis Batch: 360-66028		Date Analyzed:	11/18/2010 1152			

Analytical Data

Client: Olin Corporation

Job Number: 360-31150-1

General Chemistry

Client Sample ID: OC-GW-34D DUP

Lab Sample ID: 360-31150-8

Date Sampled: 11/17/2010 1020

Client Matrix: Water

Date Received: 11/17/2010 1750

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Sulfate	36		mg/L	2.0	2.0	1.0	300.0
	Analysis Batch: 360-66333		Date Analyzed:	11/23/2010 2013			
Chloride	4.2		mg/L	1.0	1.0	1.0	300.0
	Analysis Batch: 360-66333		Date Analyzed:	11/23/2010 2013			
Ammonia	14		mg/L	0.10	0.10	1.0	L107-06-1B
	Analysis Batch: 360-66318		Date Analyzed:	11/24/2010 1352			
	Prep Batch: 360-66251		Date Prepared:	11/23/2010 1414			
Specific Conductance	170		umhos/cm	1.0	1.0	1.0	SM 2510B
	Analysis Batch: 360-66028		Date Analyzed:	11/18/2010 1153			

Analytical Data

Client: Olin Corporation

Job Number: 360-31150-1

General Chemistry**Client Sample ID:** OC-GW-202S DUP

Lab Sample ID: 360-31150-9

Date Sampled: 11/17/2010 1205

Client Matrix: Water

Date Received: 11/17/2010 1750

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Sulfate	360		mg/L	20	20	10	300.0
	Analysis Batch: 360-66332		Date Analyzed:	11/23/2010 0939			
Chloride	65		mg/L	10	10	10	300.0
	Analysis Batch: 360-66332		Date Analyzed:	11/23/2010 0939			
Ammonia	60		mg/L	1.0	1.0	10	L107-06-1B
	Analysis Batch: 360-66313		Date Analyzed:	11/24/2010 1157			
	Prep Batch: 360-66251		Date Prepared:	11/23/2010 1414			
Specific Conductance	1100		umhos/cm	1.0	1.0	1.0	SM 2510B
	Analysis Batch: 360-66028		Date Analyzed:	11/18/2010 1155			

Analytical Data

Client: Olin Corporation

Job Number: 360-31150-1

General Chemistry

Client Sample ID:	OC-GW-34SR						
Lab Sample ID:	360-31150-10						
Client Matrix:	Water						
Analyte	Result	Qual	Units	RL	RL	Dil	Method
Sulfate	9.5		mg/L	2.0	2.0	1.0	300.0
	Analysis Batch: 360-66332	Date Analyzed: 11/23/2010 0954					
Chloride	1.7		mg/L	1.0	1.0	1.0	300.0
	Analysis Batch: 360-66332	Date Analyzed: 11/23/2010 0954					
Ammonia	0.20		mg/L	0.10	0.10	1.0	L107-06-1B
	Analysis Batch: 360-66490	Date Analyzed: 11/30/2010 1626					
	Prep Batch: 360-66418	Date Prepared: 11/30/2010 0912					
Specific Conductance	70		umhos/cm	1.0	1.0	1.0	SM 2510B
	Analysis Batch: 360-66028	Date Analyzed: 11/18/2010 1156					

DATA REPORTING QUALIFIERS

Client: Olin Corporation

Job Number: 360-31150-1

Lab Section	Qualifier	Description
Metals	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
General Chemistry	F	MS or MSD exceeds the control limits
	4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.

QUALITY CONTROL RESULTS

Quality Control Results

Client: Olin Corporation

Job Number: 360-31150-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Analysis Batch:360-66154					
LCS 360-66154/1	Lab Control Sample	T	Water	6010B	
LCSD 360-66154/4	Lab Control Sample Duplicate	T	Water	6010B	
MB 360-66154/2	Method Blank	T	Water	6010B	
360-31150-1	OC-GW-202S	D	Water	6010B	
360-31150-1MS	Matrix Spike	D	Water	6010B	
360-31150-1MSD	Matrix Spike Duplicate	D	Water	6010B	
360-31150-1SD	Serial Dilution	D	Water	6010B	
360-31150-2	OC-GW-202D	D	Water	6010B	
360-31150-3	OC-GW-34D	D	Water	6010B	
360-31150-3MS	Matrix Spike	D	Water	6010B	
360-31150-3MSD	Matrix Spike Duplicate	D	Water	6010B	
360-31150-3SD	Serial Dilution	D	Water	6010B	
360-31150-4	OC-GW-78S	D	Water	6010B	
360-31150-5	OC-GW-79S	D	Water	6010B	
360-31150-6	OC-PZ-16RR	D	Water	6010B	
360-31150-7	OC-PZ-17RR	D	Water	6010B	
360-31150-8	OC-GW-34D DUP	D	Water	6010B	
360-31150-9	OC-GW-202S DUP	D	Water	6010B	
360-31150-10	OC-GW-34SR	D	Water	6010B	
Analysis Batch:360-66198					
LCS 360-66198/13	Lab Control Sample	T	Water	6010B	
LCSD 360-66198/26	Lab Control Sample Duplicate	T	Water	6010B	
MB 360-66198/14	Method Blank	T	Water	6010B	
360-31150-8	OC-GW-34D DUP	D	Water	6010B	

Report Basis

D = Dissolved

T = Total

Quality Control Results

Client: Olin Corporation

Job Number: 360-31150-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:360-66028					
LCS 360-66028/1	Lab Control Sample	T	Water	SM 2510B	
MB 360-66028/37	Method Blank	T	Water	SM 2510B	
MB 360-66028/4	Method Blank	T	Water	SM 2510B	
360-31150-1	OC-GW-202S	T	Water	SM 2510B	
360-31150-1DU	Duplicate	T	Water	SM 2510B	
360-31150-2	OC-GW-202D	T	Water	SM 2510B	
360-31150-3	OC-GW-34D	T	Water	SM 2510B	
360-31150-3DU	Duplicate	T	Water	SM 2510B	
360-31150-4	OC-GW-78S	T	Water	SM 2510B	
360-31150-5	OC-GW-79S	T	Water	SM 2510B	
360-31150-6	OC-PZ-16RR	T	Water	SM 2510B	
360-31150-7	OC-PZ-17RR	T	Water	SM 2510B	
360-31150-8	OC-GW-34D DUP	T	Water	SM 2510B	
360-31150-9	OC-GW-202S DUP	T	Water	SM 2510B	
360-31150-10	OC-GW-34SR	T	Water	SM 2510B	
Prep Batch: 360-66251					
LCS 360-66251/2-A	Lab Control Sample	T	Water	Distill/Ammonia	
MB 360-66251/1-A	Method Blank	T	Water	Distill/Ammonia	
360-31150-1	OC-GW-202S	T	Water	Distill/Ammonia	
360-31150-1MS	Matrix Spike	T	Water	Distill/Ammonia	
360-31150-1MSD	Matrix Spike Duplicate	T	Water	Distill/Ammonia	
360-31150-2	OC-GW-202D	T	Water	Distill/Ammonia	
360-31150-4	OC-GW-78S	T	Water	Distill/Ammonia	
360-31150-5	OC-GW-79S	T	Water	Distill/Ammonia	
360-31150-6	OC-PZ-16RR	T	Water	Distill/Ammonia	
360-31150-7	OC-PZ-17RR	T	Water	Distill/Ammonia	
360-31150-8	OC-GW-34D DUP	T	Water	Distill/Ammonia	
360-31150-9	OC-GW-202S DUP	T	Water	Distill/Ammonia	
Analysis Batch:360-66313					
360-31150-1	OC-GW-202S	T	Water	L107-06-1B	360-66251
360-31150-1MS	Matrix Spike	T	Water	L107-06-1B	360-66251
360-31150-1MSD	Matrix Spike Duplicate	T	Water	L107-06-1B	360-66251
360-31150-2	OC-GW-202D	T	Water	L107-06-1B	360-66251
360-31150-4	OC-GW-78S	T	Water	L107-06-1B	360-66251
360-31150-5	OC-GW-79S	T	Water	L107-06-1B	360-66251
360-31150-6	OC-PZ-16RR	T	Water	L107-06-1B	360-66251
360-31150-7	OC-PZ-17RR	T	Water	L107-06-1B	360-66251
360-31150-9	OC-GW-202S DUP	T	Water	L107-06-1B	360-66251
Analysis Batch:360-66318					
LCS 360-66251/2-A	Lab Control Sample	T	Water	L107-06-1B	360-66251
MB 360-66251/1-A	Method Blank	T	Water	L107-06-1B	360-66251
360-31150-8	OC-GW-34D DUP	T	Water	L107-06-1B	360-66251

Quality Control Results

Client: Olin Corporation

Job Number: 360-31150-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:360-66331					
LCS 360-66331/6	Lab Control Sample	T	Water	300.0	
MB 360-66331/5	Method Blank	T	Water	300.0	
360-31150-1	OC-GW-202S	T	Water	300.0	
360-31150-1MS	Matrix Spike	T	Water	300.0	
360-31150-1MSD	Matrix Spike Duplicate	T	Water	300.0	
360-31150-2	OC-GW-202D	T	Water	300.0	
360-31150-4	OC-GW-78S	T	Water	300.0	
Analysis Batch:360-66332					
LCS 360-66332/6	Lab Control Sample	T	Water	300.0	
MB 360-66332/5	Method Blank	T	Water	300.0	
360-31150-3	OC-GW-34D	T	Water	300.0	
360-31150-3MS	Matrix Spike	T	Water	300.0	
360-31150-3MSD	Matrix Spike Duplicate	T	Water	300.0	
360-31150-5	OC-GW-79S	T	Water	300.0	
360-31150-6	OC-PZ-16RR	T	Water	300.0	
360-31150-9	OC-GW-202S DUP	T	Water	300.0	
360-31150-10	OC-GW-34SR	T	Water	300.0	
Analysis Batch:360-66333					
LCS 360-66333/6	Lab Control Sample	T	Water	300.0	
MB 360-66333/5	Method Blank	T	Water	300.0	
360-31150-7	OC-PZ-17RR	T	Water	300.0	
360-31150-8	OC-GW-34D DUP	T	Water	300.0	
Analysis Batch:360-66377					
LCS 360-66377/6	Lab Control Sample	T	Water	300.0	
MB 360-66377/5	Method Blank	T	Water	300.0	
360-31150-2	OC-GW-202D	T	Water	300.0	
Prep Batch: 360-66418					
LCS 360-66418/2-A	Lab Control Sample	T	Water	Distill/Ammonia	
MB 360-66418/1-A	Method Blank	T	Water	Distill/Ammonia	
360-31150-3	OC-GW-34D	T	Water	Distill/Ammonia	
360-31150-3MS	Matrix Spike	T	Water	Distill/Ammonia	
360-31150-3MSD	Matrix Spike Duplicate	T	Water	Distill/Ammonia	
360-31150-10	OC-GW-34SR	T	Water	Distill/Ammonia	
Analysis Batch:360-66490					
LCS 360-66418/2-A	Lab Control Sample	T	Water	L107-06-1B	360-66418
MB 360-66418/1-A	Method Blank	T	Water	L107-06-1B	360-66418
360-31150-3	OC-GW-34D	T	Water	L107-06-1B	360-66418
360-31150-3MS	Matrix Spike	T	Water	L107-06-1B	360-66418
360-31150-3MSD	Matrix Spike Duplicate	T	Water	L107-06-1B	360-66418
360-31150-10	OC-GW-34SR	T	Water	L107-06-1B	360-66418

Quality Control Results

Client: Olin Corporation

Job Number: 360-31150-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
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Report Basis

T = Total

Quality Control Results

Client: Olin Corporation

Job Number: 360-31150-1

Method Blank - Batch: 360-66154

Method: 6010B

Preparation: N/A

Lab Sample ID: MB 360-66154/2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 11/19/2010 1531
Date Prepared: N/A

Analysis Batch: 360-66154
Prep Batch: N/A
Units: ug/L

Instrument ID: Varian ICP
Lab File ID: 111910e.csv
Initial Weight/Volume: 1.0 mL
Final Weight/Volume: 1.0 mL

Analyte	Result	Qual	MDL	RL
Aluminum	ND		12	100
Chromium	ND		0.65	5.0

Lab Control Sample/ Lab Control Sample Duplicate Recovery Report - Batch: 360-66154

Method: 6010B

Preparation: N/A

LCS Lab Sample ID: LCS 360-66154/1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 11/19/2010 1528
Date Prepared: N/A

Analysis Batch: 360-66154
Prep Batch: N/A
Units: ug/L

Instrument ID: Varian ICP
Lab File ID: 111910e.csv
Initial Weight/Volume: 1.0 mL
Final Weight/Volume: 10 mL

LCSD Lab Sample ID: LCSD 360-66154/4
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 11/19/2010 1606
Date Prepared: N/A

Analysis Batch: 360-66154
Prep Batch: N/A
Units: ug/L

Instrument ID: Varian ICP
Lab File ID: 111910e.csv
Initial Weight/Volume: 1.0 mL
Final Weight/Volume: 10 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Aluminum	99	102	80 - 120	3	20		
Chromium	99	101	80 - 120	2	20		

Quality Control Results

Client: Olin Corporation

Job Number: 360-31150-1

Matrix Spike/ Matrix Spike Duplicate Recovery Report - Batch: 360-66154

Method: 6010B

Preparation: N/A

MS Lab Sample ID:	360-31150-1	Analysis Batch:	360-66154	Instrument ID:	Varian ICP
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	111910e.csv
Dilution:	1.0			Initial Weight/Volume:	1.0 mL
Date Analyzed:	11/19/2010 1612			Final Weight/Volume:	10 mL
Date Prepared:	N/A				
MSD Lab Sample ID:	360-31150-1	Analysis Batch:	360-66154	Instrument ID:	Varian ICP
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	111910e.csv
Dilution:	1.0			Initial Weight/Volume:	1.0 mL
Date Analyzed:	11/19/2010 1615			Final Weight/Volume:	10 mL
Date Prepared:	N/A				

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Aluminum	98	97	75 - 125	1	20		
Chromium	95	94	75 - 125	1	20		

Matrix Spike/ Matrix Spike Duplicate Recovery Report - Batch: 360-66154

Method: 6010B

Preparation: N/A

MS Lab Sample ID:	360-31150-3	Analysis Batch:	360-66154	Instrument ID:	Varian ICP
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	111910e.csv
Dilution:	2.0			Initial Weight/Volume:	1.0 mL
Date Analyzed:	11/19/2010 1841			Final Weight/Volume:	10 mL
Date Prepared:	N/A				
MSD Lab Sample ID:	360-31150-3	Analysis Batch:	360-66154	Instrument ID:	Varian ICP
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	111910e.csv
Dilution:	2.0			Initial Weight/Volume:	1.0 mL
Date Analyzed:	11/19/2010 1844			Final Weight/Volume:	10 mL
Date Prepared:	N/A				

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Aluminum	93	93	75 - 125	1	20		
Chromium	93	93	75 - 125	0	20		

Quality Control Results

Client: Olin Corporation

Job Number: 360-31150-1

Serial Dilution - Batch: 360-66154

Method: 6010B

Preparation: N/A

Lab Sample ID: 360-31150-1 Analysis Batch: 360-66154
Client Matrix: Water Prep Batch: N/A
Dilution: 5.0 Units: ug/L
Date Analyzed: 11/19/2010 1618
Date Prepared: N/A

Instrument ID: Varian ICP
Lab File ID: 111910e.csv
Initial Weight/Volume: 1.0 mL
Final Weight/Volume: 1.0 mL

Analyte	Sample Result/Qual	Result	%Diff	Limit	Qual
Aluminum	ND	ND	NC	10	
Chromium	3.9	J	4.45	10	J

Serial Dilution - Batch: 360-66154

Method: 6010B

Preparation: N/A

Lab Sample ID: 360-31150-3 Analysis Batch: 360-66154
Client Matrix: Water Prep Batch: N/A
Dilution: 10 Units: ug/L
Date Analyzed: 11/19/2010 1847
Date Prepared: N/A

Instrument ID: Varian ICP
Lab File ID: 111910e.csv
Initial Weight/Volume: 1.0 mL
Final Weight/Volume: 1.0 mL

Analyte	Sample Result/Qual	Result	%Diff	Limit	Qual
Aluminum	ND	244	NC	10	J
Chromium	19	22.3	NC	10	J

Quality Control Results

Client: Olin Corporation

Job Number: 360-31150-1

Method Blank - Batch: 360-66198

Method: 6010B

Preparation: N/A

Lab Sample ID: MB 360-66198/14
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 11/22/2010 1127
Date Prepared: N/A

Analysis Batch: 360-66198
Prep Batch: N/A
Units: ug/L

Instrument ID: Varian ICP
Lab File ID: 112210a.csv
Initial Weight/Volume: 1.0 mL
Final Weight/Volume: 1.0 mL

Analyte	Result	Qual	MDL	RL
Aluminum	ND		12	100
Chromium	ND		0.65	5.0

Lab Control Sample/ Lab Control Sample Duplicate Recovery Report - Batch: 360-66198

Method: 6010B

Preparation: N/A

LCS Lab Sample ID: LCS 360-66198/13
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 11/22/2010 1125
Date Prepared: N/A

Analysis Batch: 360-66198
Prep Batch: N/A
Units: ug/L

Instrument ID: Varian ICP
Lab File ID: 112210a.csv
Initial Weight/Volume: 1.0 mL
Final Weight/Volume: 10 mL

LCSD Lab Sample ID: LCSD 360-66198/26
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 11/22/2010 1235
Date Prepared: N/A

Analysis Batch: 360-66198
Prep Batch: N/A
Units: ug/L

Instrument ID: Varian ICP
Lab File ID: 112210a.csv
Initial Weight/Volume: 1.0 mL
Final Weight/Volume: 10 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Aluminum	99	100	80 - 120	1	20		
Chromium	99	99	80 - 120	0	20		

Quality Control Results

Client: Olin Corporation

Job Number: 360-31150-1

Method Blank - Batch: 360-66331

Method: 300.0

Preparation: N/A

Lab Sample ID: MB 360-66331/5
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 11/22/2010 2304
Date Prepared: N/A

Analysis Batch: 360-66331
Prep Batch: N/A
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 1.0 mL
Final Weight/Volume: 1.0 mL

Analyte	Result	Qual	RL	RL
Sulfate	ND		2.0	2.0
Chloride	ND		1.0	1.0

Lab Control Sample - Batch: 360-66331

Method: 300.0

Preparation: N/A

Lab Sample ID: LCS 360-66331/6
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 11/22/2010 2319
Date Prepared: N/A

Analysis Batch: 360-66331
Prep Batch: N/A
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 1.0 mL
Final Weight/Volume: 10 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Sulfate	80.0	83.6	105	85 - 115	
Chloride	40.0	41.3	103	85 - 115	

Quality Control Results

Client: Olin Corporation

Job Number: 360-31150-1

Matrix Spike/ Matrix Spike Duplicate Recovery Report - Batch: 360-66331

Method: 300.0

Preparation: N/A

MS Lab Sample ID:	360-31150-1	Analysis Batch:	360-66331	Instrument ID:	No Equipment Assigned
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	10			Initial Weight/Volume:	1.0 mL
Date Analyzed:	11/23/2010 0321			Final Weight/Volume:	10 mL
Date Prepared:	N/A				

MSD Lab Sample ID:	360-31150-1	Analysis Batch:	360-66331	Instrument ID:	No Equipment Assigned
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	10			Initial Weight/Volume:	1.0 mL
Date Analyzed:	11/23/2010 0336			Final Weight/Volume:	10 mL
Date Prepared:	N/A				

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Sulfate	128	128	75 - 125	0	20	F	F
Chloride	115	115	75 - 125	0	20		

Quality Control Results

Client: Olin Corporation

Job Number: 360-31150-1

Method Blank - Batch: 360-66332

Method: 300.0

Preparation: N/A

Lab Sample ID: MB 360-66332/5
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 11/23/2010 0537
Date Prepared: N/A

Analysis Batch: 360-66332
Prep Batch: N/A
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 1.0 mL
Final Weight/Volume: 1.0 mL

Analyte	Result	Qual	RL	RL
Sulfate	ND		2.0	2.0
Chloride	ND		1.0	1.0

Lab Control Sample - Batch: 360-66332

Method: 300.0

Preparation: N/A

Lab Sample ID: LCS 360-66332/6
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 11/23/2010 0552
Date Prepared: N/A

Analysis Batch: 360-66332
Prep Batch: N/A
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 1.0 mL
Final Weight/Volume: 10 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Sulfate	80.0	84.3	105	85 - 115	
Chloride	40.0	41.7	104	85 - 115	

Quality Control Results

Client: Olin Corporation

Job Number: 360-31150-1

Matrix Spike/ Matrix Spike Duplicate Recovery Report - Batch: 360-66332

Method: 300.0

Preparation: N/A

MS Lab Sample ID:	360-31150-3	Analysis Batch:	360-66332	Instrument ID:	No Equipment Assigned
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	10			Initial Weight/Volume:	1.0 mL
Date Analyzed:	11/23/2010 0652			Final Weight/Volume:	10 mL
Date Prepared:	N/A				
MSD Lab Sample ID:	360-31150-3	Analysis Batch:	360-66332	Instrument ID:	No Equipment Assigned
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	10			Initial Weight/Volume:	1.0 mL
Date Analyzed:	11/23/2010 0707			Final Weight/Volume:	10 mL
Date Prepared:	N/A				

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Sulfate	119	118	75 - 125	0	20		
Chloride	107	107	75 - 125	0	20		

Quality Control Results

Client: Olin Corporation

Job Number: 360-31150-1

Method Blank - Batch: 360-66333

Method: 300.0

Preparation: N/A

Lab Sample ID: MB 360-66333/5
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 11/23/2010 1210
Date Prepared: N/A

Analysis Batch: 360-66333
Prep Batch: N/A
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 1.0 mL
Final Weight/Volume: 1.0 mL

Analyte	Result	Qual	RL	RL
Sulfate	ND		2.0	2.0
Chloride	ND		1.0	1.0

Lab Control Sample - Batch: 360-66333

Method: 300.0

Preparation: N/A

Lab Sample ID: LCS 360-66333/6
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 11/23/2010 1225
Date Prepared: N/A

Analysis Batch: 360-66333
Prep Batch: N/A
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 1.0 mL
Final Weight/Volume: 10 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Sulfate	80.0	84.2	105	85 - 115	
Chloride	40.0	41.5	104	85 - 115	

Quality Control Results

Client: Olin Corporation

Job Number: 360-31150-1

Method Blank - Batch: 360-66377

Method: 300.0

Preparation: N/A

Lab Sample ID: MB 360-66377/5
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 11/24/2010 1610
Date Prepared: N/A

Analysis Batch: 360-66377
Prep Batch: N/A
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 1.0 mL
Final Weight/Volume: 1.0 mL

Analyte	Result	Qual	RL	RL
Sulfate	ND		2.0	2.0
Chloride	ND		1.0	1.0

Lab Control Sample - Batch: 360-66377

Method: 300.0

Preparation: N/A

Lab Sample ID: LCS 360-66377/6
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 11/24/2010 1625
Date Prepared: N/A

Analysis Batch: 360-66377
Prep Batch: N/A
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 1.0 mL
Final Weight/Volume: 10 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Sulfate	80.0	82.6	103	85 - 115	
Chloride	40.0	41.8	104	85 - 115	

Quality Control Results

Client: Olin Corporation

Job Number: 360-31150-1

Method Blank - Batch: 360-66251

Lab Sample ID: MB 360-66251/1-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 11/24/2010 1349
Date Prepared: 11/23/2010 1414

Analysis Batch: 360-66318
Prep Batch: 360-66251
Units: mg/L

Method: L107-06-1B
Preparation: Distill/Ammonia

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result	Qual	RL	RL
Ammonia	ND		0.10	0.10

Lab Control Sample - Batch: 360-66251

Lab Sample ID: LCS 360-66251/2-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 11/24/2010 1350
Date Prepared: 11/23/2010 1414

Analysis Batch: 360-66318
Prep Batch: 360-66251
Units: mg/L

Method: L107-06-1B
Preparation: Distill/Ammonia

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Ammonia	10.0	9.00	90	85 - 115	

Matrix Spike/ Matrix Spike Duplicate Recovery Report - Batch: 360-66251

MS Lab Sample ID: 360-31150-1
Client Matrix: Water
Dilution: 5.0
Date Analyzed: 11/24/2010 1142
Date Prepared: 11/23/2010 1414

Analysis Batch: 360-66313
Prep Batch: 360-66251

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

MSD Lab Sample ID: 360-31150-1
Client Matrix: Water
Dilution: 5.0
Date Analyzed: 11/24/2010 1143
Date Prepared: 11/23/2010 1414

Analysis Batch: 360-66313
Prep Batch: 360-66251

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Ammonia	74	83	75 - 125	1	20	4	4

Quality Control Results

Client: Olin Corporation

Job Number: 360-31150-1

Method Blank - Batch: 360-66418

Lab Sample ID: MB 360-66418/1-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 11/30/2010 1620
Date Prepared: 11/30/2010 0912

Analysis Batch: 360-66490
Prep Batch: 360-66418
Units: mg/L

Method: L107-06-1B

Preparation: Distill/Ammonia

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result	Qual	RL	RL
Ammonia	ND		0.10	0.10

Lab Control Sample - Batch: 360-66418

Lab Sample ID: LCS 360-66418/2-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 11/30/2010 1621
Date Prepared: 11/30/2010 0912

Analysis Batch: 360-66490
Prep Batch: 360-66418
Units: mg/L

Method: L107-06-1B
Preparation: Distill/Ammonia

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Ammonia	10.0	9.53	95	85 - 115	

Matrix Spike/ Matrix Spike Duplicate Recovery Report - Batch: 360-66418

Method: L107-06-1B
Preparation: Distill/Ammonia

MS Lab Sample ID: 360-31150-3
Client Matrix: Water
Dilution: 5.0
Date Analyzed: 11/30/2010 1643
Date Prepared: 11/30/2010 0912

Analysis Batch: 360-66490
Prep Batch: 360-66418

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

MSD Lab Sample ID: 360-31150-3
Client Matrix: Water
Dilution: 5.0
Date Analyzed: 11/30/2010 1644
Date Prepared: 11/30/2010 0912

Analysis Batch: 360-66490
Prep Batch: 360-66418

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	% Rec.				RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD	Limit					
Ammonia	87	75	75 - 125		6	20		

Quality Control Results

Client: Olin Corporation

Job Number: 360-31150-1

Method Blank - Batch: 360-66028

Method: SM 2510B

Preparation: N/A

Lab Sample ID: MB 360-66028/4
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 11/18/2010 1005
Date Prepared: N/A

Analysis Batch: 360-66028
Prep Batch: N/A
Units: umhos/cm

Instrument ID: Autotitrator
Lab File ID: 10111800.TXT
Initial Weight/Volume:
Final Weight/Volume: 1.0 mL

Analyte	Result	Qual	RL	RL
Specific Conductance	ND		1.0	1.0

Method Blank - Batch: 360-66028

Method: SM 2510B

Preparation: N/A

Lab Sample ID: MB 360-66028/37
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 11/18/2010 1142
Date Prepared: N/A

Analysis Batch: 360-66028
Prep Batch: N/A
Units: umhos/cm

Instrument ID: Autotitrator
Lab File ID: 10111800.TXT
Initial Weight/Volume:
Final Weight/Volume: 1.0 mL

Analyte	Result	Qual	RL	RL
Specific Conductance	ND		1.0	1.0

Lab Control Sample - Batch: 360-66028

Method: SM 2510B

Preparation: N/A

Lab Sample ID: LCS 360-66028/1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 11/18/2010 0942
Date Prepared: N/A

Analysis Batch: 360-66028
Prep Batch: N/A
Units: umhos/cm

Instrument ID: Autotitrator
Lab File ID: 10111800.TXT
Initial Weight/Volume:
Final Weight/Volume: 1.0 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Specific Conductance	1410	1380	97	85 - 115	

Quality Control Results

Client: Olin Corporation

Job Number: 360-31150-1

Duplicate - Batch: 360-66028

Method: SM 2510B

Preparation: N/A

Lab Sample ID: 360-31150-1

Analysis Batch: 360-66028

Instrument ID: Autotitrator

Client Matrix: Water

Prep Batch: N/A

Lab File ID: 10111800.TXT

Dilution: 1.0

Units: umhos/cm

Initial Weight/Volume:

Date Analyzed: 11/18/2010 1139

Final Weight/Volume: 1.0 mL

Date Prepared: N/A

Analyte

Sample Result/Qual

Result

RPD

Limit

Qual

Specific Conductance

1100

1060

0.3

20

Duplicate - Batch: 360-66028

Method: SM 2510B

Preparation: N/A

Lab Sample ID: 360-31150-3

Analysis Batch: 360-66028

Instrument ID: Autotitrator

Client Matrix: Water

Prep Batch: N/A

Lab File ID: 10111800.TXT

Dilution: 1.0

Units: umhos/cm

Initial Weight/Volume:

Date Analyzed: 11/18/2010 1146

Final Weight/Volume: 1.0 mL

Date Prepared: N/A

Analyte

Sample Result/Qual

Result

RPD

Limit

Qual

Specific Conductance

170

171

0.4

20

State Accreditation Matrix

Method Name	Description	State where Primary Accreditation is Carried			
		New Hampshire (NELAC) prim.	Mass	Conn	Florida (NELAC)
821-R-02-012	Toxicity, Acute (48-Hour)(list upon request)	NP			NP
SM 4500 CI F	Chlorine, Residual		NP		
SM 9215E	Heterotrophic Plate Count (SimPlate)		P		
SM 9222D	Coliforms, Fecal (Membrane Filter)		P/NP		
SM 9223	Coliforms, Total, and E.Coli (Colilert-P/A)		P		
SM 9224	Coliforms, Total, and E.Coli (Enumeration)		P		
1103.1	E.coli		ambient/ source		
Enterolert	Enterococcus				
200.8 Rev 5.4	Metals (ICP/MS) (list upon request)	NP/P	NP/P	NP/P	
200.7 Rev 4.4	Metals (ICP)(list upon request)	NP/P	NP/P	NP/P	
6010B	Metals (ICP)(list upon request)	NP/SW		NP/SW	
245.1	Mercury (CVAA)	NP/P	NP	NP/P	
7470A	Mercury (CVAA)	NP		NP	
7471A	Mercury (CVAA)	SW		SW	
SM 2340B	Total Hardness (as CaCO ₃) by calculation	NP/P	NP	NP/P	
3005A	Preparation, Total Recoverable or Dissolved Metals	NP/P		NP/P	
3010A	Preparation, Total Metals	NP/P		NP/P	
3020A	Preparation, Total Metals	NP/P/SW		NP/P/SW	
3050B	Preparation, Metals	SW		SW	
504.1	EDB, DBCP and 1,2,3-TCP (GC)	P	P	P	
608	Organochlorine Pest/PCBs (list upon request)	NP	NP	NP	
625	Semivolatile Org Comp (GC/MS)(list upon request)	NP		NP	
3546	Microwave Extraction	SW			
3510C	Liquid-Liquid Extraction (Separatory Funnel)	NP		NP	
3540C	Soxhlet Extraction	SW			
3550B	Ultrasonic Extraction	SW		SW	
600/4-81-045	Polychlorinated Biphenyls (PCBs) (GC)		NP	NP	
8081A	Organochlorine Pesticides (GC)(list upon request)	NP/SW		NP/SW	
8082A	PCBs by Gas Chromatography(list upon request)	NP/SW		NP/SW	
8270C	Semivolatile Comp.(GC/MS)(list upon request)	NP/SW		NP/SW	
CT ETPH	Conn - Ext. Total petroleum Hydrocarbons (GC)			NP/SW	
MA-EPH	Mass - Extractable Petroleum Hydrocarbons (GC)			NP/SW	NP/SW
524.2	Volatile Org Comp (GC/MS)(list upon request)	P	P	P	
524.2	Trihalomethane compounds	P	P	P	
624	Volatile Org Comp (GC/MS)(list upon request)	NP	NP	NP	
5035	Closed System Purge and Trap	SW		SW	
5030B	Purge and Trap	NP		NP	
8260B	Volatile Org Comp. (GC/MS)(list upon request)	NP/SW		NP/SW	
MAVPH	Mass - Volatile Petroleum Hydrocarbons (GC)			NP/SW	NP/SW
180.1	Turbidity, Nephelometric	P	P	P	
300	Anions, Ion Chromatography	NP/P	NP/P	NP/P	
410.4	COD	NP	NP	NP	
1010	Ignitability, Pensky-Martens Closed-Cup Method	SW		SW	
10-107-06-2	Nitrogen, Total Kjeldahl	NP	NP	NP	
7196A	Chromium, Hexavalent	NP/SW		NP/SW	
9012A	Cyanide, Total and/or Amenable	NP/SW		NP/SW	
9030B	Sulfide, Distillation (Acid Soluble and Insoluble)	NP		NP	
9040B	pH	NP		NP	
9045C	pH	SW		SW	
L107041C	Nitrogen, Nitrate	NP	P	NP/P	
L107-06-1B	Nitrogen Ammonia	NP	NP	NP/P	
L204001A CN	Cyanide, Total	P	NP/P	NP/P	
L210-001A	Phenolics, Total Recoverable	NP	NP	NP	
SM 2320B	Alkalinity	NP/P	NP/P	NP/P	
SM 2510B	Conductivity, Specific Conductance	NP/P	NP/P	NP/P	
SM 2540C	Solids, Total Dissolved (TDS)	NP/P	NP/P	NP/P	
SM 2540D	Solids, Total Suspended (TSS)	NP	NP	NP	
SM 3500 CR D	Chromium, Hexavalent	NP		NP	
SM 4500 H+ B	pH	NP/P	NP/P	NP/P	
SM 4500 NO2 B	Nitrogen, Nitrite	NP	P	NP/P	
SM 4500 P E	Phosphorus, Orthophosphate	NP/P	NP	NP/P	
SM 4500 P E	Phosphorus, Total	NP	NP	NP	
SM 4500 S2 D	Sulfide, Total	NP		NP	
SM 5210B	BOD, 5-Day	NP	NP	NP	
SM 5310B	Organic Carbon, Total (TOC)	NP/P	NP	NP/P	

Not all organic compounds are accredited under NELAC

For methods with multiple compounds all compounds may not meet NELAC criteria, listing should be obtained from the laboratory

The lab carries additional accreditations with several states. This is the laboratories typical listing but is subject to change based on the laboratories current certification standing.

Login Sample Receipt Check List

Client: Olin Corporation

Job Number: 360-31150-1

Login Number: 31150

List Source: TestAmerica Westfield

Creator: Beaumier, Janine E

List Number: 1

Question	T / F/ NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	

TestAmerica Westfield

Westfield Executive Park 53 Southampton Road
Westfield MA 01085

Chain of Custody Record

TestAmerica

TestAmerica Westfield

Westfield Executive Park 55 Southampton Road
Westfield, MA 01085
Phone (413) 572-4000 Fax (413) 572-3707

Chain of Custody Record

TestAmerica
SOLARIS SYSTEM

100-1000-0000-0000-0000-0000-0000-0000

Client Information	Sampler: Lab P/M: Mason, Becky C E-Mail: becky.mason@testamericainc.com	Carrier Tracking No(s): COC NO: 360-10706.1
Client Contact: Steve Morrow	Phone:	Page: Page 2 of 2
Company: Olin Corporation	Address: 51 Earles street City: Willington	Job #: Job:

Analysis Requested	
Due Date Requested:	TAT Requested (days):

Field Filtered Sample (Yes or No)	
Perform MS/MSD (Yes or No)	
LACH_107_06_1_B - Ammonia	
6010B - Field Filtered Iron A1/cr	
MAVPH	
8260MCP TMP only	
9270_LL_MCP - 9270 NDPA and BEHP only	
GM4500_H4+ pH	
2510B Spec. (und, 300.0_280.504/4)	

Preservation Codes:	
A - HCl	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsHtaO2
D - Nitric Acid	P - Na2O3
E - NaHCO3	F - MeOH
G - Ammonium	R - Na2SiSO3
H - Ascorbic Acid	S - H2SO4
I - Ice	T - TSP Dodecahydrate
J - DI Water	U - Acetone
K - EDTA	V - MCAA
L - EDA	W - ph 4-5
Z - other (specify)	
Other:	

Total Number of containers	
Special Instructions/Note:	
X	
S	D
A	N
A	N
X	X
X	X
X	X
X	X
3	

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)	
<input type="checkbox"/> Return To Client	<input checked="" type="checkbox"/> Disposal By Lab
<input type="checkbox"/> Archive For	Months
Special Instructions/QC Requirements:	

Method of Shipment:	
Date:	Time:
Received by:	Date/Time:
Company	Company
Received by:	Date/Time:
Company	Company
Received by:	Date/Time:
Company	Company

Possible Hazard Identification	
<input type="checkbox"/> Non-Hazard	<input type="checkbox"/> Flammable
<input type="checkbox"/> Skin Irritant	<input type="checkbox"/> Poison B
<input type="checkbox"/> Unknown	<input type="checkbox"/> Radiological
Deliverable Requested: I, II, III, IV, Other (specify)	

Empty Kit Relinquished by:	
Date:	Time:
Relinquished by:	Date/Time:
Company	Company
Relinquished by:	Date/Time:
Company	Company
Relinquished by:	Date/Time:
Company	Company
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No	
Custody Seal No.: <i>O. loc. w/ ice</i>	